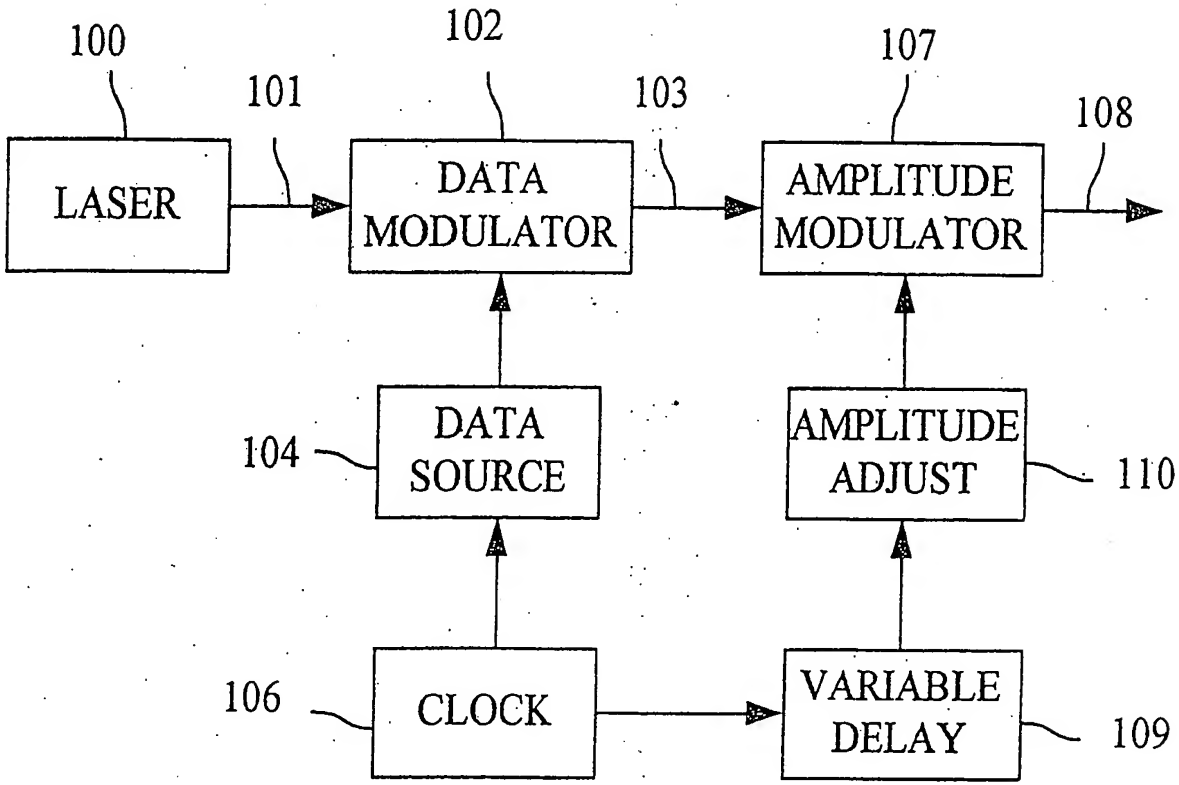
100
101
102
103
107
108
LASER
DATA MODULATOR
AMPLITUDE MODULATOR
104
DATA SOURCE
AMPLITUDE ADJUST
110
106
CLOCK
VARIABLE DELAY
109

FIGURE 1

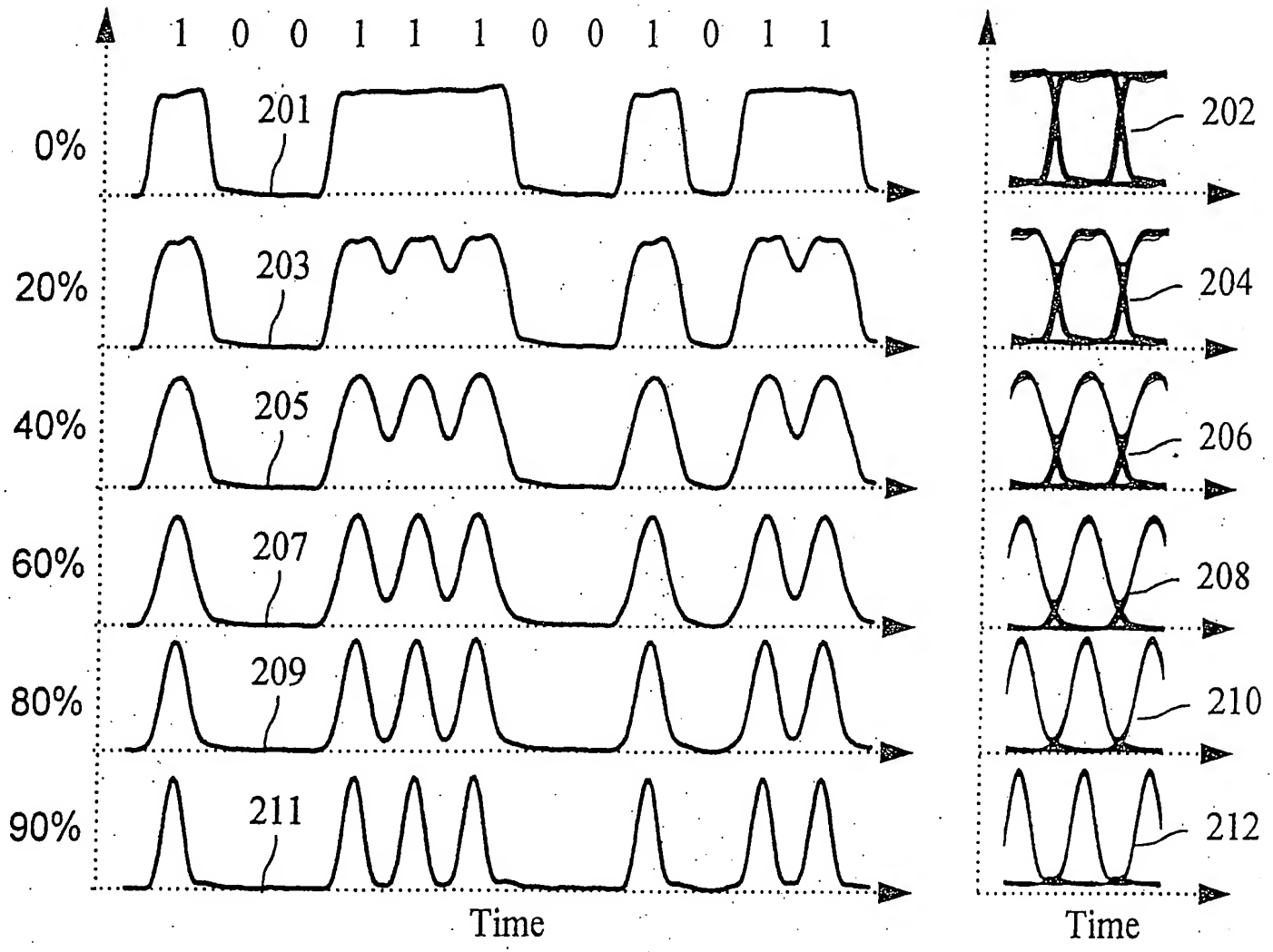
1 0 0 1 1 1 0 0 1 0 1 1
0%
20%
40%
60%
80%
90%
201
202
203
204
205
206
207
208
209
210
211
212
Time
Time

FIGURE 2

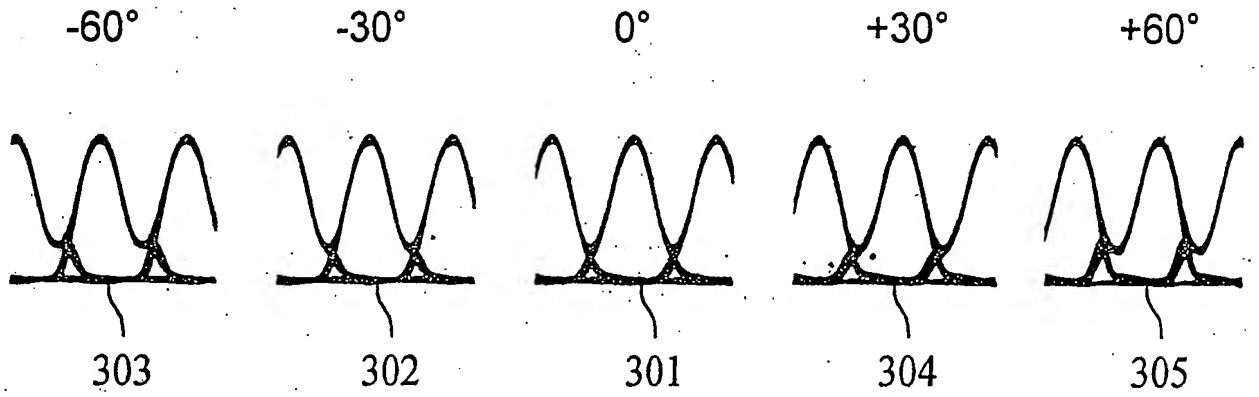

FIGURE 3

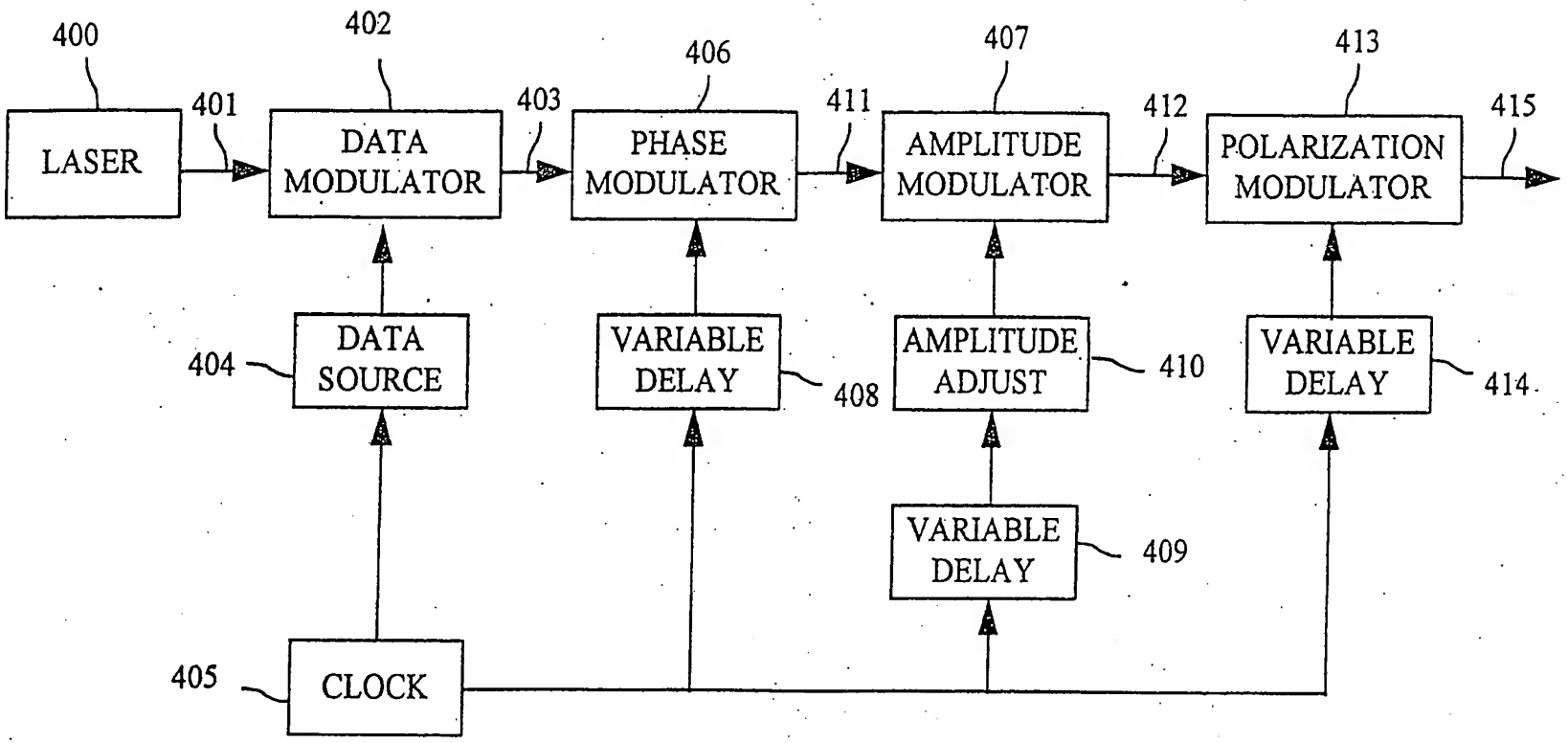
400
402
406
407
413
401
403
411
412
415
LASER
DATA MODULATOR
PHASE MODULATOR
AMPLITUDE MODULATOR
POLARIZATION MODULATOR
404
DATA SOURCE
VARIABLE DELAY
408
AMPLITUDE ADJUST
410
VARIABLE DELAY
414
VARIABLE DELAY
409
405
CLOCK

FIGURE 4

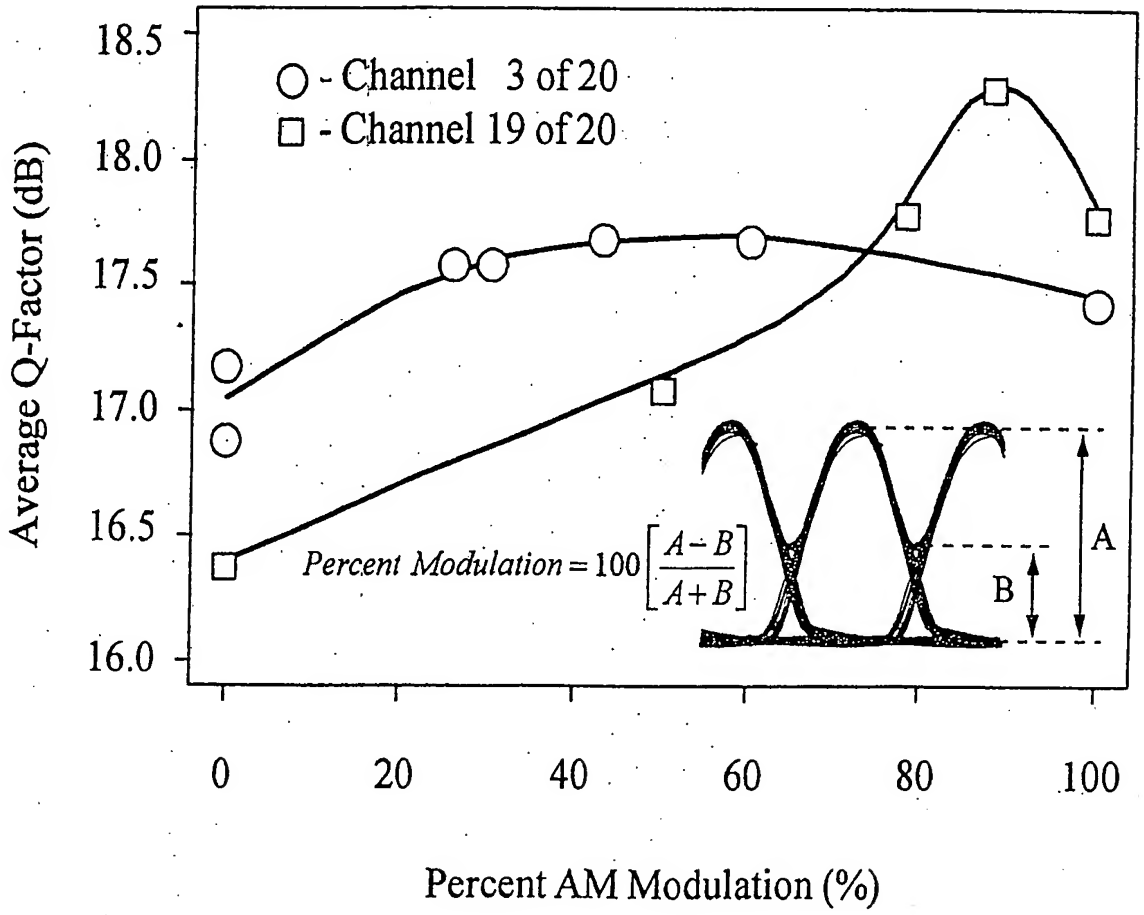
18.5
18.0
17.5
17.0
16.5
16.0
Average Q-Factor (dB)
○ - Channel 3 of 20
□ - Channel 19 of 20
Percent Modulation = 100 [A−B / A+B]
A
B
0
20
40
60
80
100
Percent AM Modulation (%)

FIGURE 5

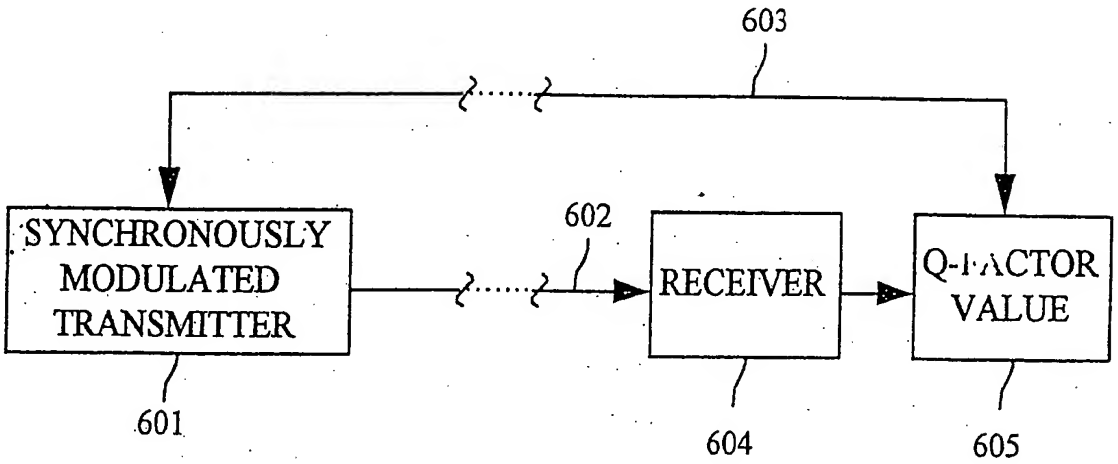
603
SYNCHRONOUSLY MODULATED TRANSMITTER
602
RECEIVER
Q-FACTOR VALUE
601
604
605

FIGURE 6